

Figure 1.

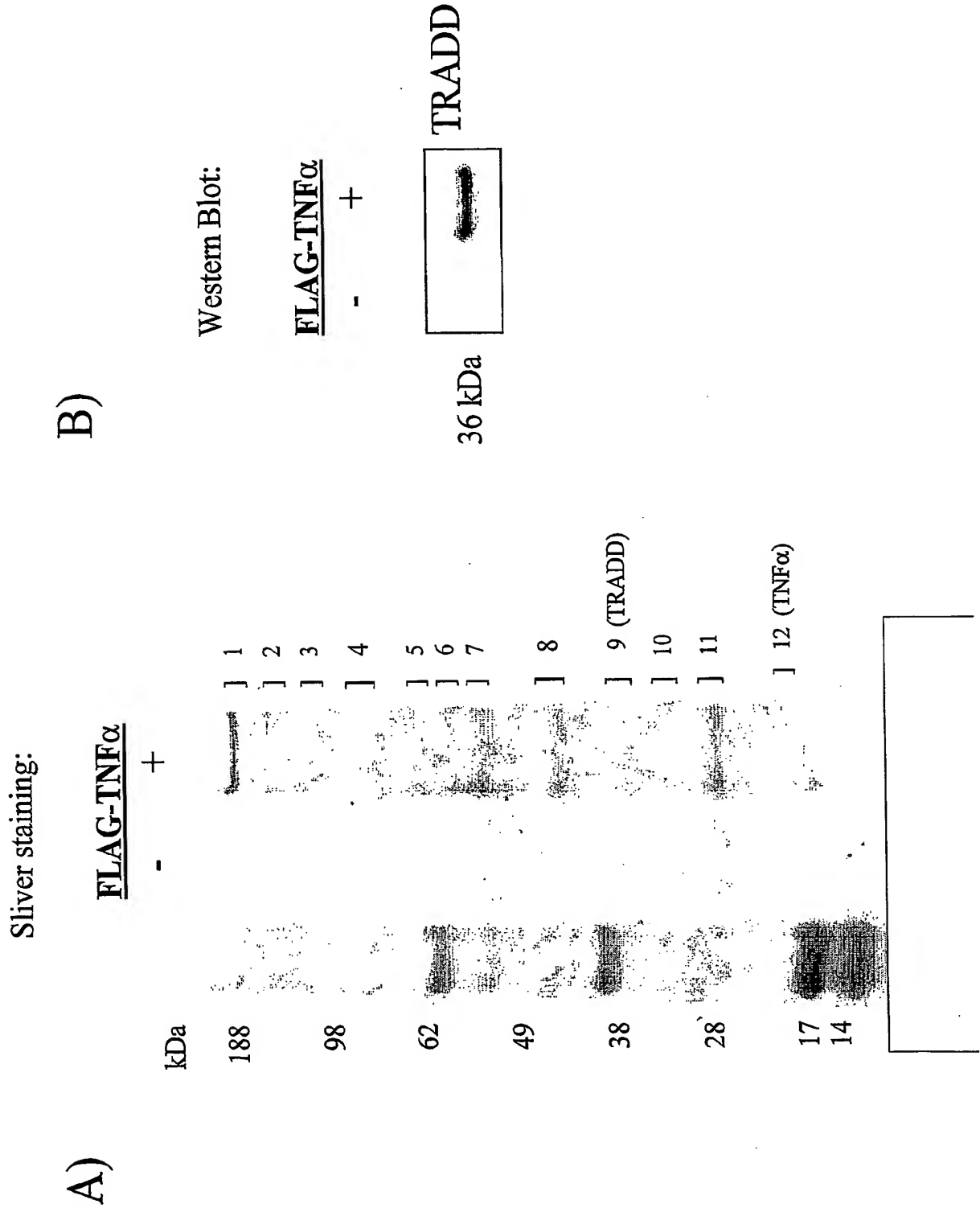


Figure 2.

TNF α

MSTESMIRDV ELAEEALPKK TGGPQGSRRRC LFLSLFSFLI
VAGATTLLFCL LHFGVIGPQR EESPRDLSLI SPLAQAVRSS
SRTPSDKPVA HVVANPQAEQ QLQWLNRRAN **ALLANGVELR**
DNQLVVPSEG **LYLIYSQVLF** **KGQGCPSHVV** **LLTHTISRIA**
VSYQTKVNLL **SAIKSPCQRE** **TPEGAEAKPW** **YEPIYLGGE**
QLEKGDRLSA EINRPDYLDL AESGQVYFGI IAL

Figure 3.

DNA sequence of TNF α

atgagcactgaaagcatgacccgggacgtggagctggccgagggagggcgctccccaaagaagacagggggccccag
ggctccaggcgggtgcttggttcctcagccctcttctccttctgacgtggcaggcgccaccacgctcttctgctgctgcaact
ttggagtgatcggccccagaggggaagagttccccagggaccctctctaatcagccctctggccccagggcagtcagatc
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gggtgaggccaaagccctgggtatgagcccatctatctggggagggtcttcagctgggagaaagggtgaccgactcagc
gctgagatcaatcgggccgactatctcgactttggccgagtctggggcagggtctactttgggcatcattggccctgtga

Figure 4.

TNFR1

MGLSTVPDLL LPLVLELLV GIYPSGVIGL VPHLGDRKR DSVCPQGKYI
 HPQNNsicCT KCHKGTyLYN DCPGGQDDTD **CRECESGFT** **ASENHILRHCL**
 SCSKCRKEMG QVEISSCTVD RDTVCGRKN QYRHYWSENLFQCFNCSLCL
 NGTVHLSCQE **KQNTVCTCHA** **GFFLR**ENECV SCSNCKKSLE CTKLCLPQIE
 NVKGTEDSGT TVLLPLVIFF GLCLLSLFI GLMYRYQRWK SKLYSIVCGK
 STPEKEGELE GTTKPLAPN PSFSPTPGFT PTLGFSVPVS STFTSSSTYT
 PGDCPNFAAP RREVAPPYQG ADPILATALA SDPIPNPLQK WEDSAHKPQS
 LDTDDPATLY AVVENVPPLR WKEFVRRRLGL SDHEIDRLEL QNGRCLREAQ
 YSMLATWRRR TPRREATLEL LGRVLRDMDL LGCLEDIEEA LCGPAALPPA
 PSLLR.

Figure 6.

TNFR2

MAPVAVWAAL AVGLELWAAA HALPAQVAFT PYAPEPGSTC RLREYYDQTA
 QMCCSKCSPG QHAKVFC TKT SDTVCDSCED STYTQLWNWV PECLSCGSR**C**
SSDQVETQAC TREQNRICTC RPYWCALSK QEGCRLCAPL RKCRPGFGVA
 RPYGTETSDVV CKPCAPGTFS NTSSTDICR PHQICNVVAI PGNASMDAVC
 TSTSPTRSMA PGAVHLPQPV STRSQHTQPT PEPSTAPSTS FLLPMGPSP**P**
 AEGSTGDFAL PVGLIVGVTA LGLLIIGVVN CVIMTQVKKK PLCLQREAKV
 PHLPADKARG TQGPQQHLL ITAPSSSSSS LESSASALDR RAPTRNQ**PQA**
 PGVEASGAGE ARASTGSSDS SPGGHGTQVN VTCIVNVCSS SDHSSQCSSQ
 ASSTMGDTDS SPSESPKDEQ VPFSKEECA**F** RSQLETPETL LGSTE**EKP**LP
 LGVPDAGMK**P** S.

DNA sequence of TNFR2

[illegible]

Figure 8.

TRADD

LAGVGTQAPP RRPGEEMAAG QNGHEEWVGS AYL'FV'ESSLD **KVVLSDAYAH**
PQKVAVYRA **LQAALAESGG** SPDVLQMLKI HRSDPQLIVQ **LR**FCGRQPCG
RFLRAYREGA LRAALQ~~RS~~LA **AALAQHSVPL** QLELRAGAER **LDALLADEER**
CLSCILAQQP DRLRDEELAE LEDALRNLKC GSGARGGDGE VASAPLQPPV
PSLSEVKPPP PPPPAQTFLF QGQPVVNRPL SLKDQQTFFAR SVGLKWRKVG
RSLQ~~RG~~CRA**L** RDPALD**SLAY** **EYEREGLYEQ** **AFQLLRRFVQ** **AEGRRATLQR**
LVEALEENEL TSLAEDLLGL TDPNGGLA.

Figure 9.

DNA sequence of TRADD

ctggcgggcgtgggaacccaggccccggccgaggccggccaggaggtgagagtgatggcaggtctggggcaaaatggggcacgaaagagtgg
gggtggcagcgcatacctgtttgtggagtgctctgctggacaaagggtgggtctgtcgggatgacctacggcgacccccagcagcaga
aggtggcagtgtagagggtctctgcaaggctgaccttggcagagagcgggcgaggccccggagacctgtgctgcagatgctgaaagatc
caccgcaaggacccgacgctgcatcgtgcaagctgcatctggcaggcggcgaggccccgtggggcccccttctccggcgccctacccg
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accgatacccaatggcgggcctgggctag

Figure 10.

TRAF2
(TNF receptor-associated protein 2)

MAAASVTPPG SLELLQPGFS KTL LGTKLEA **KYLCSACRNV LRRPFOAQC**
GRYCSFCILAS ILSSGPQNCA ACVHEGIYEE GISILESSA FPDNAARREV
ESLPAVCPSD GCTWKGTKE YESCHEGRCP IMLTÉCPACK GLVRLGEKER
HLEHECPERS LSCRHCRAPC CGADVKAHHE VCPK**FFLTCD GCGKKKIPRE**
KFQDHVKTCG KCRVPCRFHA IGCLÉTVEGE KQEHÉVQWL REHLAMLSS
VLEAKPLLGD QSHAGSELLQ RCESEKK**TA TFFENIVCVLN REVERVAMTA**
EACSRQHRLD QDKIEALSSK VQQLERSIGL **KDLAMADLEQ KVRPFOAQC**
HRYCSFCILAS ILRKLQEAVA **GRIPAFSPA FYTSRYGYKM CLRILNGDG**
TGRGTHLSLF FVVMKGPNDALLRWPFNQKV **TLMLLDQNNR EHVIDAFRPD**
VTSSSFQRPV NDMNIASGCP LFCPVSKMEA
KNSYVRDDAI FIKAIVDLTG L

Figure 11.

DNA sequence of TRAF2

atggctgagctagcgtgacccccctggctccctggagttgctacagccccggcttctccaagacccctcctgggaccaa
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aagaattcctacgtgcgggacgatgccatcttcatcaaggccattgtggacctgacagggtctctaa

Figure 12.

92523323

TRAP2

MEEGGRDKAP VQPOQSPAAA PGGTDEKPSG KERRDAGDKD KEQELSEEDK QLQDELEMLA
ERLGEKDTSL YRPALEELRR QIRSSTTSMT SVPKPLKFLR PHYGKLKEIY ENMAPGENKR
FAADIISVLA MTMSGERECL KYR**LVGSQEE** **LASWGHEYVR** HLAGEVAKEW QELDDAEKVQ
REPLLTIVKE IVPYNMAHNA EHEACDILLME IEQVDMLEKD IDENAYAKVC LYLTSCVNYV
PEPENSALLR CALGVFRKFS RFPEALRLAL MLNDMELVED IFTSCKDVVV QKQMAFMLGR
HGVFLELSED VEEYEDLTEI MSNVQLNSNF LALARELDIM EPKVPDDIYK THLENNRFGG
SGSQVDSARM **NLASSEVNGF** **VNAAFGQDKL** LTDDGNKWLY KNKDHGMLSA AASLAMILLW
DVDGGLTQID KYLYSSEDI KSGALLACGI VNSGVRNECD PALALLSDYV LHNSNTMRIG
SIFGLGLAYA GSN**REDVLT** **LLPVMGDSKS** SMEVAGVTAL ACGMIAVGSC NGDVTSTILQ
TIMEKSETEL KDTYARWLPL GLGLNHGKG EAIEAILAAL EVVSEPFERSF ANTLVDVCAY
AGSGNVLVQ QLLHICSEHF DSKEKEEDKD KKEKKDKDKK EAPADMGAHQ GVAVLGIALI
AMGEEIGAEM ALRTFGHLLR YGEPTLRR**AV** **PLALALISVS** **NPRLNILDTL** **SKF**SHDADPE
VSNSIFAMG MVSGGTNNAR LAAMLRLQ**LAQ** YHAK**DPNNLF** **MVRLAQGLTH** LGKGTLLTCLP
YHSDRQLMSQ VAVAGLLTVL VSFLDVRNII LGKSHYVLYG LVAAMQPR**ML** **VTFDEELRPL**
PVSVRVGQAV **DVVGQAGKPK** TITGFQTHTT PVLLAHGERA ELATEEFLPV TPILLEGEVIL
RKNPNYDL.

[illegible]

Figure 14.

NAK/TBK/T2K

1 MQSTSNHLWL LSDILGQGAT ANVFRGRHKK **TGDLFAIKVF** NNISFLRPVD
51 **VQMR**EEFEVLK KLNHKNIIVKL **FAIEEETTTR** HKVLIMEFCP CGSLYTVLEE
101 PSNAYGLPES EFLIVLRDVV **GGMNH**LRENG IVHRDIKPGN IMRVIGEDGQ
151 **SVYK**LTDFGA ARELEDDEQF VSLYGTEEYL HPDMYERAVL RKDHQKKYGA
201 TVDLWSIGVT FYHAATGSLP FRPFEGPRRN KEVMYKIITG KPSGAISGVQ
251 KAENGPIDWS GDMPVSCSL **RGLQVLLTPV** LANILEADQE KCWGFDDQFFA
301 ETSDILHRMV IHVFSLQQMT AHKIYIHSYN TATIFHELVY KQTKIISNNQ
351 **ELIYEGRR**LV **LEPGR**LAQHF PKTTEENPIF **VVSREPLNTI** GLIYEKISLP
401 KVHPRYDLDG DASMAKAITG **VVCYACRIAS** TLLLYQELMR KGIRWLIELI
451 KDDYNETVHK KTEVVITLDF CIRNIEKTVK VYEKLMKINL **EAAELGEISD**
501 **IHTK**LLRLSS **SQGTIETSLQ** **DIDSR**LSPGG **SLADAWAHQE** GTHPKDRNVE
551 KLQVLLNCMT EIIYYQFKKDK AERRLAYNEE QIHKFDKQKL YYHATKAMTH
601 FTDECVKKYE AFLNKSEEWI RKMLHLRKQL LSLTNQCEDI EEEVSKYQEY
651 TNELQETLPQ KMFTASSGIK HTMTPIYPSS NTLVEMTLGM KKLKEEMEGV
701 **VKELAENNHI** **LERFGSLTMD** GGLRNVDCGL

Figure 15. DNA sequence of NAK

atgcagagcacttctaatacatctgtggccttttatctgatatctttaggcccaaggagctactgcaaatgtcttctgtggagacataagaaaaactgggtga
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ttttagaaagggttgctcttaaccatggatgggtggccttcgcaacgttgactgtcttttag

Figure 16.

RasGAP3

MAVDEGLRV FQSVKIKIGE AKNLPSYGP SKMRDCYCTV NLDQEEVFRT KIVEKSLCPF
 YGEDFYCEIP RSEFRHLSFYI FDRDVERRDS IIGKVAIOKE DLQKYHNRDT WFQLQHVDDAD
 SEVQGVHLE LRLSEVITDT GVVCHKLATR IVECCGLPIV NGQCDPYATV TLAGPFRSEA
 KKTQVKKRKTN NPQFEDEVFYF EVTRPCSYSK KSHFDFFEEED VDKLEIRVDL WNASNLKFGD
EFLGELRIPL KVLRSQSSYE AWYFLQPRDN GSKSLKPDDL **GSLRLNVVYT EDHVFSSDYY**
SPLRDLLKS ADVEPVSASA AHILGEVCRE KQEAAPLVR LFLHYGRVVP **FISAIASAEV**
KRTQDPNTIF RGNSLASKCI DETMKLAGMH YLHVTLKPAL EEICQSHKPC EIDPVKCLKDG
 ENLENNMENL RQYVDRVFHA ITESGVSCPT VMCDIFFSLR EAAAKRFQDD PDVRYTAVSS
FIFLRFFAPA ILSPNLEQLT PHHTDPQTSR TLTLLISKTVQ **TLGSLSKSKS** ASFKESYMAT
 FYEFFNEQKY ADAVK**NF**LDL **ISSSGRRDPK** SVEQPIVLKE GFMIKRAQGR KRFGMKNFKK
 RWFRLTNHEF TYHKSKGDQP LYSIPIENIL AVEKLEEESEF **KMKNMFQVIQ PERALYIQAN**
 NCVEAKDWID IILTKVSQCNO KRLTVYHPSA YLSGHWLCCR APSDSAPGCS PCTGGLPANI
 QLDIDGDRET ERIYSLFNLY MSKLEKMQEA CGSKSVYDGP EQEYSTFVI DDPQETYKTL
 KQVIRWVGAL EQEHAQYKRD KFKTKYGSQ EHPIGDKSFQ NYIROQSETS THSI.

Figure 17.

RasGAP3 DNA sequence

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cgggggagaaagagacccccaaagagtggttgagcagccccatcgtgcttaaaagaaaggggttcatgatacaagagggggcccaagggacggcgttggggatgaaagaaatgtt
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caggagagacctacaaagacgctaaagcaagtcacccgtggtgggttggggcgtttggagcagggagcacggccccagttataagaggggacaaagtccaagaaagacgaaatgag
gaaagccagggagcaccctcctggagacaagagcgttccagaaactacatccggcagcagctccggagacctccactcattccatttaa

Figure 18.

TRCP1 (KIAA0143)

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MPTRVCCCS ALRPRYKRLV DNIFFEDPKD GLVKTDMEKL TFYAVSAPEK LDRIGSYLAE
RLSRDVVRHR SGYVLIAMEA LDQLLMACHS QSIKPFVESF LHMVAKLLES GEPKLQVLGT
NSFVKFANIE EDTPSYHRRY DFFVSRFSAM CHSCHSDPEI RTEIRIAGIR GIQGVVRKTV
NDELRAIWE PQHMDKIVPS LLENMQKIEE VDSRIGPPSS PSATDKEENP AVLAENCFRE
LLGRATEFGNM NNAVRPVFAH LDHKKLWDPN EFAVHCFKII MYSIQAQYSH HVIQEIILGHL
DARKKDAPRV RAGIIQVILE AVAIAAKGSI GPTVLEVENT LLKHLRLSVE FEANDLQGGS
VGSVNINLTSS KDNDEKIVQN AIIQTIGFFG SNLPDYQRSE IMMFIMGKVP VFGTSTHTLD
ISQLGDLGTR RIQIMLLRSL LMVTSGYKAK TIVTALPGSF LDPLLSPSLM EDYELRQLVL
EVMHNLMDRH DNRAKLRGIR IIPDVADLKI KREKICRQDT SFMKKNGQQL YRHIYLGCKE
EDNVQKNYEL LYTSLALITI ELANEEVVID LIRLAIALQD SAIINEDNLP MFHRCGIMAL
VAAYLNEFVSQ MIAVPAFQCQH VSKVIEIRTM EAPYFLPEHI FRDKCMLPKS LEKHEKDLYF
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SNT EEITFEA LKKAIDTSGM EEQEKEKRRL VIEKFQKAPF EEIAAQCESK ANLLHDLRLAQ
ILELTIRPPP SPSGTLTITS GHAQYQSVPV YEMKFPDLCV Y

```

Figure 19.

DNA sequence of TRCP1 (KIAA0143)

atgcctacccgagtgatgctgctgctgttccgcttggctcctgctctacaaacgcctgggtggacaacatatctccctgaagatccaaaagatggcccttggaaaact
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tatgagatgaagtttccagatctgtgtgttactga

Figure 20.

TRCP2 (similar to FLJ20758)

MAVVS	AVRWL	GLRSRL	GQPL	TGRRAGL	CEQ	ARSCRF	YSGS	ATLSK	VEGTD	VTGIEE	VVIP
KKKTW	DKVAV	LQALAS	TVNR	DTTAVPY	VFQ	DDPYL	MPASS	LESRS	FLLAK	KSGENV	AKFI
INSYP	KYFQK	DIAEPH	IPCL	MPEYFEP	QIK	DISEA	AALKER	IELRK	VKASV	DMFDQL	LQAG
TTVSLE	TTNS	LLDLLC	YYGD	QEPSTD	YHFQ	QTGQSE	AAL	ENDETS	RRKA	GHQFGV	TWRA
KNNAE	RIFSL	MPEKNE	HSYC	TMIRGM	VKHR	AYEQAL	NLYT	ELLNN	RLLHAD	VYTFNAL	IEA
TVCAI	NEKFE	EKWSKI	LELL	RHMVA	QKVKE	NLQTF	NTILK	CLRRF	HVFAR	SPALQVL	REM
KAIGIE	PSLA	TYHHII	RLFD	QPGDPL	KRSS	FIIYD	IMNEL	MGRFSP	KDP	DDDKFF	QSAM
SICSSL	RDL	LAYQVH	GLLK	TGDNW	KFIGP	DQHRN	FYYSK	FFDLIC	LMEQ	IDVTL	KWYED
LIPSA	YFPHS	QTMIHLL	LQAL	DVANR	LEVIP	KIWKDS	KEYG	HTFRS	DLREE	ILMLM	ARDKH
PPELQ	VAFAD	CAADIK	SAYE	SQPIRQ	TAQD	WPATSL	NCLCIA	ILFLR	AGRTQ	EAWKML	GLFR
KHNKI	PRSEL	LNELMD	SAKV	SNSPSQ	AI	EV	VELASA	FAFSLP	ICEGLT	QVRM	SDFAINQEQK
EALSNL	TALT	SDSDTD	SSSD	SDSDT	SE	GK					

Figure 21. DNA sequence of TRCP2 (similar to FLJ20758)

atggcggtgtatctgtctgctggcgctccgcagcagcgtggccagccgctgacggcgctggcgggcggtgtgtgaac
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 agtgatactgacagcagcagtgacagcgacagtgacaccagtggaaggcaaatga

Figure 22.

TNFA-dependent recruitment of NAK on TNFR1

